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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/027,814	12/20/2001	Azmi B. Osman	27006-0002	9480

7590

08/22/2005

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EXAMINER

FENSTERMACHER, DAVID MORGAN

ART UNIT

PAPER NUMBER

3682

DATE MAILED: 08/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/027,814	Applicant(s) OSMAN, AZMI B.	
	Examiner Bradley J. Van Pelt	Art Unit 3682	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 June 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 2-11 and 14-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 2-11 and 14-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 2-11 and 14-21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The limitation “the channels tapering downwardly from . . . the second end” is inaccurate. The drawings do not show this limitation.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 2, 4-6, 10, 11, and 14-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Onozaki (JP 11-280548) in view of Shalman (USPN 6,332,556).

Onozaki discloses an oil pan for an engine comprising: a plurality of substantially parallel, spaced-apart reinforcement channels (see Fig. 3 bottom grooves) extending from adjacent a first end (23) of the oil pan to adjacent a second end (thinner area) of the oil pan, each channel having a base and two sides and an open top, the channels tapering downwardly from the first end and the second end towards an accumulation area (see fig. 1 flat circular portion 28) of the oil pan; wherein the reinforcement channels are substantially U-shaped; the second end of the oil pan has an end surface which is substantially planar; said end surface has no tool access

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pockets therein; wherein adjacent the second end and intermediate the width of the second end, the oil pan has a region (3) of reduced height, and wherein the region of reduced height having a planar portion into which the at least one reinforcing channel does not extend; wherein the taper is created by curving the channels with a large radius of curvature; wherein the oil pan has a main body, the main body having two side walls (21, 22), a first end wall (23), and a base (25), and wherein the accumulation area is integral with the base; the oil pan has a region of reduced height and the main body has a second end wall (20) which tapers into the region of reduced height; wherein there are no channels in the accumulation area; the channels extend up the first end wall but at a reducing height up the first end wall (see figs. 2 and 3 outline of channels extend up wall); wherein there are three channels.

Onozaki does not disclose the channel walls along the base are of a height, which is less than their height in the region of reduced height or the channels have a radius of curvature that is 2000mm.

Shalman shows channel walls along a base are of a height which is less than their height in a region of reduced height (see Figs. 1A and 1B).

To modify the apparatus of Onozaki so as to provide channels walls along a base of a height which is less than their height in the region of reduced height would have been obvious to one of ordinary skill in the art at the time the invention was made in view of the teachings of Shalman that such an arrangement improves the ability of the oil to collect in the reservoir.

It would have been an obvious matter to change the radius of curvature to 2000mm, since such a modification would have involved a mere change in size of a component. A change in size is generally recognized as being within the level of ordinary skill in the art.

5. Claims 2, 4-6, 10, 11, and 14-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moller (USPN 4,395,982) in view of Shalman.

Moller discloses an oil pan for an engine comprising: a plurality of substantially parallel, spaced-apart reinforcement channels (U shaped recesses in fig. 2) extending from adjacent a first end (left end in fig. 1) of the oil pan to adjacent a second end (right end of fig. 1) of the oil pan, each channel having a base and two sides and an open top, the channels tapering downwardly from the first end and the second end towards an accumulation area (see fig. 2) of the oil pan; wherein the reinforcement channels are substantially U-shaped;

the second end of the oil pan has an end surface which is substantially planar (flat rim-like surface);

said end surface has no tool access pockets therein;

wherein adjacent the second end and intermediate the width of the second end, the oil pan has a region of reduced height, and wherein the region of reduced height having a planar portion into which the at least one reinforcing channel does not extend (the number of channels on the left and right sides are not equal therefore one of them does not extent to reduced height portion); wherein the taper is created by curving the channels;

wherein the oil pan has a main body, the main body having two side walls, a first end wall, and a base, and wherein the accumulation area is integral with the base;

the oil pan has a region of reduced height and the main body has a second end wall which tapers into the region of reduced height (side portions taper into area of reduced height);

wherein there are no channels in the accumulation area (portion at the bottom that extends lowest has no channels therein, see fig. 1);

the channels extend up the first end wall but at a reducing height up the first end wall; wherein there are three channels.

Moller does not disclose not disclose the channel walls along the base are of a height which is less than their height in the region of reduced height, or the channels have a radius of curvature that is 2000mm.

Shalman shows channel walls along a base are of a height which is less than their height in a region of reduced height (see Figs. 1A and 1B).

To modify the apparatus of Moller so as to provide channels walls along a base of a height which is less than their height in the region of reduced height would have been obvious to one of ordinary skill in the art at the time the invention was made in view of the teachings of Shalman that such an arrangement improves the ability of the oil to collect in the reservoir.

It would have been an obvious matter to change the radius of curvature to 2000mm, since such a modification would have involved a mere change in size of a component. A change in size is generally recognized as being within the level of ordinary skill in the art.

6. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Onozaki (JP 11-280548) in view of Shalman as applied to claims 2, 4-6, 10, 11, 14-15, and 17 above, and further in view of Hofbauer et al. (USPN 4,296,716).

The above reference combination discloses all of the instantly claimed invention except the reinforcement channels are V-shaped.

Hofbauer et al. show reinforcement channels that are V-shaped. It would have been obvious to one having ordinary skill in the art at the time the invention was made to form the

channels in a V-shape, since Hofbauer et al. state at column 3, lines 43-48, that such a modification would ensure better cooling of the oil.

7. Claims 7-9 and 18-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Onozaki (JP 11-280548) in view of Shalman as applied to claims 2, 4-6, 10, 11, 14-15, and 17 above, and further in view of Takubo (USPN 4,770,276).

The above reference combination does not disclose the planar portion is adapted to releasable receive thereon a horizontal portion of a substantially L-shaped cover plate; the cover plate has a substantially upright portion such that when the cover plate is mounted on the planar portion, the substantially upright portion is substantially coplanar with the end surface; wherein the substantially upright portion has a securing flange at an end thereof remote from the horizontal portion; a plurality of bolt holes are provided in each of the securing flange and the horizontal portion; wherein bolt holes are not provided in the upright portion.

Takubo discloses a planar portion is adapted to releasable receive thereon a horizontal portion (28) of a substantially L-shaped cover plate (27); the cover plate has a substantially upright portion (mid-portion) such that when the cover plate is mounted on the planar portion, the substantially upright portion is substantially coplanar with the end surface; wherein the substantially upright portion has a securing flange (30) at an end thereof remote from the horizontal portion; a plurality of bolt holes are provided in each of the securing flange and the horizontal portion; wherein bolt holes are not provided in the upright portion.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the oil pan of the above reference combination with a cover plate for the purpose of reinforcing the mounting of the oil pan to the transmission.

8. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Moller in view of Shalman as applied to claims 2, 4-6, 10, 11, 14-15, and 17 above, and further in view of Hofbauer et al. (USPN 4,296,716).

The above reference combination discloses all of the instantly claimed invention except the reinforcement channels are V-shaped.

Hofbauer et al. show reinforcement channels that are V-shaped.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to form the channels in a V-shape, since Hofbauer et al. state at column 3, lines 43-48, that such a modification would ensure better cooling of the oil.

9. Claims 7-9 and 18-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moller in view of Shalman as applied to claims 2, 4-6, 10, 11, 14-15, and 17 above, and further in view of Takubo (USPN 4,770,276).

The above reference combination does not disclose the planar portion is adapted to releasable receive thereon a horizontal portion of a substantially L-shaped cover plate; the cover plate has a substantially upright portion such that when the cover plate is mounted on the planar portion, the substantially upright portion is substantially coplanar with the end surface; wherein the substantially upright portion has a securing flange at an end thereof remote from the horizontal portion; a plurality of bolt holes are provided in each of the securing flange and the horizontal portion; wherein bolt holes are not provided in the upright portion.

Takubo discloses a planar portion is adapted to releasable receive thereon a horizontal portion (28) of a substantially L-shaped cover plate (27); the cover plate has a substantially upright portion (mid-portion) such that when the cover plate is mounted on the planar portion,

the substantially upright portion is substantially coplanar with the end surface; wherein the substantially upright portion has a securing flange (30) at an end thereof remote from the horizontal portion; a plurality of bolt holes are provided in each of the securing flange and the horizontal portion; wherein bolt holes are not provided in the upright portion.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the oil pan of the above reference combination with a cover plate for the purpose of reinforcing the mounting of the oil pan to the transmission.

Response to Arguments

10. Applicant's arguments filed June 2, 2005 have been fully considered but they are not persuasive.

Rejections Under 35 U.S.C. § 112

The applicant argues that “[f]igure 3 clearly shows the channels tapering downwardly from the second end 12 towards the accumulation area.” Merriam Webster OnLine defines taper as “progressively narrowed toward one end.” Fig. 3 does not show channels that are progressively narrowed toward one end. The width of the channels according to Fig. 5 are of uniform thickness throughout.

Rejections Under 35 U.S.C. § 103(a).

The applicant argues that the Shalman reference is non-analogous art. The examiner concedes the Shalman reference is not in the same field of endeavor. However, the reference is “reasonably pertinent to the particular problem solved by the inventor.” One of ordinary skill in the art would understand that the channels of Shalman force the paint into the bottom of the pan to prevent spillage. It is also desirable in the oil pan art to maintain the oil in a bottom portion of

the oil pan such that the oil can be drawn from a common sump. Thus the Shalman reference solves a similar problem of maintaining fluid in a common area.

Applicant also argues that Onozaki does not include reinforcement channels. It is submitted that all channels provide reinforcement, because of the extra material that is needed to form the pan. The applicant argues that Onozaki does not include channels that extend from the first end to the second end. Channels 16 extend from the first end and channels shown in Fig. 3 extend from the second end.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., "channels that slope downwardly," and "channels along the base of the deep part of the oil pan") are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Conclusion

11. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).


A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bradley J. Van Pelt whose telephone number is (571)272-7113. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Bucci can be reached on (571)272-7099. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BJVP 

 8/19/05
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SUPERVISORY PATENT EXAMINER
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